

### **WHAT IS CLAIMED IS:**

1. An air tap assembly, comprising:

an air pipe having an outer wall formed with a plurality of locking members; and

5 a valve cap rotatably and movably mounted on the air pipe and having an inner wall formed with a plurality of locking members each engaged on a bottom of a respective one of the locking members of the air pipe.

2. The air tap assembly in accordance with claim 1, wherein the locking members of the air pipe are arranged in a helical manner, and are  
10 located at the same height.

3. The air tap assembly in accordance with claim 1, wherein each of the locking members of the air pipe has a wedge shape.

4. The air tap assembly in accordance with claim 1, wherein the outer wall of the air pipe is formed with a plurality of passages located between the  
15 locking members of the air pipe.

5. The air tap assembly in accordance with claim 1, wherein the locking members of the valve cap are arranged in a helical manner and are located at the same height.

6. The air tap assembly in accordance with claim 1, wherein each of  
20 the locking members of the valve cap has a wedge shape.

7. The air tap assembly in accordance with claim 1, wherein the air pipe has an inner wall formed with an air conduit and has a top formed with an

annular groove communicating with the air conduit, and the valve cap has a top formed with an adjusting valve detachably mounted in the annular groove of the air pipe.

8. The air tap assembly in accordance with claim 7, wherein the  
5 adjusting valve of the valve cap is extended downward from the top of the valve cap.

9. The air tap assembly in accordance with claim 7, wherein the top of the valve cap is formed with a plurality of air vents each communicating with the air conduit of the air pipe when the adjusting valve of the valve cap is  
10 detached from the annular groove of the air pipe.

10. The air tap assembly in accordance with claim 7, wherein the valve cap includes a spring mounted on the adjusting valve and having a first end urged on the top of the valve cap and a second end urged on the top of the air pipe.

15 11. The air tap assembly in accordance with claim 7, wherein the valve cap further includes a washer mounted in the annular groove of the air pipe and rested on a bottom of the adjusting valve of the valve cap.

12. The air tap assembly in accordance with claim 1, wherein the air pipe has a mediate portion formed with a locking ring secured on a valve seat  
20 of an air cushion.

13. The air tap assembly in accordance with claim 12, wherein the locking ring of the air pipe has a lower end formed with an insert inserted into and locked in the valve seat of the air cushion.

14. The air tap assembly in accordance with claim 12, wherein the  
5 valve cap further includes a mounting seat secured on a bottom of the valve cap to move therewith and having an inner wall slidably mounted on the locking ring of the air pipe.

15. The air tap assembly in accordance with claim 14, wherein the locking ring of the air pipe has a top formed with a stop portion rested on the  
10 inner wall of the mounting seat when the mounting seat is moved to the top of the locking ring of the air pipe.

16. The air tap assembly in accordance with claim 7, wherein when each of the locking members of the valve cap is engaged on the bottom of a respective one of the locking members of the air pipe, the adjusting valve of the  
15 valve cap is mounted in the annular groove of the air pipe, and the valve cap is secured on the air pipe.

17. The air tap assembly in accordance with claim 7, wherein the outer wall of the air pipe is formed with a plurality of passages located between the locking members of the air pipe, and when each of the locking members of  
20 the valve cap is detached from a respective one of the locking members of the air pipe, each of the locking members of the valve cap is aligned with a respective one of the passages of the air pipe, so that the valve cap is movable

relative to the air pipe to detach the adjusting valve of the valve cap from the annular groove of the air pipe.

18. The air tap assembly in accordance with claim 1, wherein each of the locking members of the valve cap has a strip shape, and each of the locking  
5 members of the air pipe has a strip shape.